

SMOG CHECK REFERENCE GUIDE

(Revised 7-2014)

State and Consumer Services Agency
DEPARTMENT OF CONSUMER AFFAIRS



Bureau of Automotive Repair

BUREAU OF AUTOMOTIVE REPAIR

PREFACE

This reference guide consists of three sections:

Section I Program Description: General program and administrative requirements for licensed stations, licensed inspectors, and licensed technicians. Section I also includes information for miscellaneous inspection scenarios.

Section II Repair and Retest: Information for licensed technicians conducting repairs in all program areas, Change of Ownership, Basic, and Enhanced areas.

Section III BAR Referee: Information about Referee test services.

This Smog Check Reference Guide is intended to serve as a reference for Licensed Smog Check Stations, Licensed Inspectors and Licensed Smog Check Technicians. It does not contain all information needed to operate as a Smog Check station or to conduct a Smog Check Inspection. For more information on specific Smog Check inspection procedures, refer to the Smog Check Procedures Manual.

Periodically, supplemental bulletins may be distributed by the Bureau of Automotive Repair containing information about changes in laws, regulations or other material contained in this reference guide. Such supplements should be kept with this reference guide for easy access.

Prepared by:
Department of Consumer Affairs
Bureau of Automotive Repair
Standards & Training Unit
10949 North Mather Boulevard
Rancho Cordova, CA 95670

Written suggestions for improvement to this reference guide are welcomed. They should be directed to the Bureau of Automotive Repair at the above address, or via the Smog Check website, www.smogcheck.ca.gov.

Table of Contents

Section I - Program Description

General Information

1.1.0	Program Overview.....	1-1
1.1.1	Program Areas	1-2
1.1.2	Smog Check Information Internet Website	1-3
1.1.3	Smog Check Laws and Regulations	1-3
1.1.4	Affected Vehicles	1-4
1.1.5	Exempted Vehicles	1-4
1.1.6	Rejected Vehicles	1-5
1.1.7	Transfer of Ownership.....	1-5
1.1.8	Directed Vehicles	1-6
1.1.9	Gross Polluters.....	1-6
1.1.10	Electronic Transmission Network	1-7
1.1.11	Smog Check Certificate Purchases	1-8

Station Definitions

1.2.0	Test Only Stations	1-9
1.2.1	Repair Only	1-9
1.2.2	Test and Repair Stations	1-10
1.2.3	State Referee.....	1-10
1.2.4	STAR Station Certification	1-11

Station Licensing Requirements

1.3.0	Station Licensing Procedures	1-13
1.3.1	License Duration.....	1-13
1.3.2	License Fees	1-13
1.3.3	Replacement License.....	1-14
1.3.4	Stations Ceasing to Operate.....	1-14

Equipment Requirements

1.4.0	Station Equipment and Materials	1-15
-------	---------------------------------------	------

Licensed Inspector / Technician Requirements

1.5.0	Station Technician Requirements	1-16
1.5.1	Licensee Expectations	1-17
1.5.2	Inspector	1-18
1.5.3	Repair Technician.....	1-19
1.5.4	License Expiration Date	1-20
1.5.5	Additional Information for Licensed Technicians	1-20
1.5.6	Suspension and Revocation of Licenses	1-21

Table of Contents

(Section I continued)

Station Operation

1.6.0	Work Area	1-22
1.6.1	Licensed Inspector and/or Technician Required	1-22
1.6.2	License Display	1-22
1.6.3	Posting of Prices	1-23
1.6.4	Records	1-23
1.6.5	Smog Check Sign	1-24
1.6.6	Unlicensed Activity	1-24
1.6.7	Availability to the Public / Full Service to Customers	1-25
1.6.8	Sublet Inspection and Repair	1-25

Station Audits

1.7.0	BAR Station Audits	1-26
-------	--------------------------	------

Repair Assistance, Cost Waivers

1.8.0	Consumer Assistance Program	1-27
1.8.1	Repair Cost Waivers	1-28

Customer Authorization

1.9.0	Estimate Preparation	1-30
1.9.1	Station Obligations	1-30

Miscellaneous Inspection Scenarios

1.10.0	Garaged Outside Program Area	1-31
1.10.1	Motor Homes	1-31
1.10.2	Specially Constructed Vehicles (SPCNS)	1-31
1.10.3	Fleet Vehicles	1-32
1.10.4	Military Personnel Vehicles	1-33
1.10.5	Clearance of Enforcement Documents	1-33
1.10.6	Smog Check Help	1-33

Table of Contents

Section II - Repair and Retest Procedures

Vehicle Repair

2.1.0	Repair General Overview	2-1
2.1.1	Repair Estimate	2-1
2.1.2	Repair Standards.....	2-2
2.1.3	Pre-Repair Verification.....	2-2
2.1.4	Priority of Repairs	2-3
2.1.5	Non-Smog Check Repair Dealers.....	2-3
2.1.6	Sublet Repair	2-3
2.1.7	Owner Repair.....	2-4
2.1.8	EIS Manual Testing Mode.....	2-4

Vehicle Warranty

2.2.0	Emission Control Warranty	2-5
2.2.1	Warranty Repair Requirements	2-5
2.2.2	Manufacturer Obligations.....	2-5
2.2.3	California 3/50 Warranty	2-6
2.2.4	California 7/70 Warranty	2-6
2.2.5	Federal 2/24 and 8/80 Warranties.....	2-6
2.2.6	Independent Repair Dealer	2-7

Section III - BAR Referee

Referee Services

3.1.0	Referee Inspection Services.....	3-1
3.1.1	Referee Appointments	3-2
3.1.2	BAR Referee Label	3-2

Appendix

A	Areas of California Affected by the Smog Check Program	A-1
B	Definitions and Abbreviations List	B-1
C	List of Bureau of Automotive Repair Field Offices	C-1
D	Important Telephone Numbers	D-1
E	Engine Change Guidelines.....	E-1
F	Alternative Fuel Vehicles	F-1
G	Aftermarket Parts Guidelines.....	G-1

Smog Check Reference Guide

SECTION I

Sub-Section	Pages
General Information	1
Station Definitions	9
Station Licensing Requirements	13
Equipment Requirements	15
Inspector and Technician Requirements	16
Station Operation	22
Station Audits	26
Repair Assistance, Cost Waivers	28
Customer Authorization	30
Miscellaneous Inspection Scenarios	31

General Information

1.1.0 Overview

In response to amendments of the Federal Clean Air Act, Assembly Bill 2018 was passed by the legislature and signed into law in 1994. This legislation required loaded mode emissions testing for vehicles registered in areas of the state that have not achieved federal air quality standards ("Enhanced Areas"). The state's less polluted areas (Basic and Change of Ownership Areas) continued to use a two speed idle emissions test mode.

In 2010, Assembly Bill 2289 was signed into to law. This legislation modernized the program by employing an OBDII focused inspection for 2000 model-year and newer vehicles.

General Information

1.1.1 Program Areas

The Smog Check program divides the state into three areas determined by the air quality in the designated area. While the OBD II focused inspection is required statewide for most 2000 model year and newer vehicles, 1976-1999 model year vehicles may receive a different inspection, depending on program area.

Generally, the area in which a station is located determines the station license types and the station equipment requirements. For more station equipment information, see Section 1.4.0.

Smog Check certification is required in all program areas when an affected vehicle changes ownership, with the exception of gasoline vehicles 4 or less model-years old. Certification is also required in all areas when a vehicle is initially registered in California.

Enhanced Areas: These areas do not meet federal or state air quality standards for ozone and carbon monoxide. Biennial Smog Check inspections are required in these areas, in addition to the change of ownership and initial registration inspection requirement. Additionally, a portion of the vehicles in Enhanced Areas must receive their biennial Smog Check at a STAR certified Test Only station or a STAR certified Test and Repair station. In order to measure NOx emissions, most Enhanced Area vehicles 1976–1999 model years are subject to a dynamometer loaded mode emissions test.

Basic Areas: Basic areas are less polluted than Enhanced Areas; however, due to their marginal air quality, biennial inspections are required. Basic Area vehicles 1976 - 1999 model years are subject to a two speed idle test. Loaded mode tests are not required in basic areas.

Change of Ownership Areas: These more rural areas of the state require Smog Check certification only when an affected vehicle changes ownership (with the exception of gasoline vehicles 4 or less model-years old), or is initially registered in California. Vehicles 1976-1999 model years registered in the Change of Ownership Areas are subject to a two speed idle emissions test.

Some counties are solely in one program area while other counties may have portions in two or three program areas. The Smog Check website includes a “zip code based station locator” that can be used to determine program area requirement information www.smogcheck.ca.gov.

General Information

1.1.2 Smog Check Information / Smog Check Website

In addition to this reference guide, BAR uses several methods to provide stations, inspectors and technicians with the latest Smog Check information. These methods include: The Smog Check Website, Smog Check & Auto Repair News (periodic), BAR ET Blasts (as needed) and direct mailers (as needed). The website contains information about program changes and standard information regarding the Smog Check program, including but not limited to:

- BAR certified emissions test equipment;
- Auto Repair & Smog Check News and BAR ET Blasts;
- BAR approved emissions test equipment replacement parts;
- Laws and Regulations;
- Station & technician licensing applications forms;
- Limited vehicle Smog Check history;
- A link to the Air Resources Board's approved/exempted aftermarket parts website;
- On Board Diagnostics.

Smog Check website address: www.smogcheck.ca.gov. Select the **Industry** tab to access the above information.

1.1.3 Smog Check Laws and Regulations

The laws and regulations pertaining to the Smog Check program are available in booklet form and on the Smog Check website. You may obtain a copy of the laws and regulations booklet and an accompanying CD version from your local BAR field office or from the BAR mail room. Send written requests to:

Bureau of Automotive Repair Mail Room
Publication Request
10949 North Mather Blvd.
Rancho Cordova, CA 95670

Applicable Laws:

Business & Professions Code (B&P); Health & Safety Code (H&S); Vehicle Code (VC). Civil Code (CC); Family Code (FC); Insurance Code (IC); Penal Code (PC); Revenue and Taxation (R&T) Code.). These laws are typically expressed in the following manner: H&S 44011.

Applicable Regulations:

Title 16 of the California Code of Regulations (CCR). These regulations are typically expressed in the following manner: CCR § 3340.10(a).

For information regarding regulations, visit the Office of Administrative Law's website at www.oal.ca.gov.

General Information

1.1.4 Affected Vehicles

Gasoline- 1976 model-year and newer vehicles powered solely or in combination by:

- Gasoline (Includes hybrid vehicles - beginning January 2015);
- Propane;
- Natural gas;
- Methanol/ethanol.

Diesel- 1998 model-year and newer vehicles with GVWRs 14,000 pounds and less powered solely or in combination by:

- Diesel
- Propane;
- Natural gas;
- Methanol/ethanol.

VC 4000.1, 4000.2, 4000.3, H&S 44011, CCR 3340.5, 3340.42

1.1.5 Exempted Vehicles

- Gasoline vehicles 1975 model-year and older;
- Gasoline vehicles 6 or less model-years old are exempt from the biennial inspection;
- Gasoline vehicles 4 or less model-years old are exempt from inspection upon change of ownership;
- Diesel vehicles 1997 model-year and older;
- Diesel vehicles with a GVWR of 14,001 and more;
- Vehicles powered solely by electricity;
- Two-cylinder or less;
- Two-stroke (two cycle) engines, excluding rotary engines;
- Motorcycles.

Until further notice:

- CNG, LNG or LPG vehicles with a GVWR of 14,001 and more ;

H&S 44011, 44011(a)(6), VC 4000.1, CCR 3340.5, 3340.42

General Information

1.1.6 Rejected Vehicles

A Smog Check inspector can reject a vehicle for testing if he or she determines that the vehicle is unsafe or not in an operable condition adequate for testing.

Examples:

- Excessive fluid leaks in the engine, transmission or fuel system;
- Engine overheating or excessively noisy;
- Unsafe drive axle tire or wheel (dynamometer test only).

H&S § 44012 (h)

1.1.7 Transfer of Ownership

In addition to the biennial requirement, a certificate of compliance is required whenever a vehicle changes ownership except in the following circumstances:

- Vehicle is 4 or less model-years old. Example: In 2012, model years 2012, 2011, 2010, and 2009 are not subject to inspection upon transfer of ownership.
- Vehicle has had a Smog Check certificate in connection with registration renewal, and the transfer has occurred within 90 days of registration renewal.
- Vehicle is being transferred between a person's spouse, child, grandchild, parent, grandparent or sibling.
- Vehicle registered to a sole proprietorship is transferred to the proprietor as owner.
- Vehicle is transferred between companies whose principal business is leasing vehicles and there is no change in the lessee or operator of the vehicle, or between the lessor and the person who has been, for at least one year, the lessee's operator of the vehicle.
- Vehicle is transferred between the lessor and lessee and there is no change in the lessee or operator of the vehicle.
- When an additional individual is added to title.

VC 4000.1

General Information

1.1.8 Directed Vehicles

BAR directs a portion of the Enhanced Area fleet to STAR certified stations. (Both licensed Test Only stations and licensed Test and Repair stations may qualify for STAR certification). Currently, these *directed vehicles* fall under two categories:

- High Emitter Profile. The High Emitter Profile (HEP) is a statistical model used to identify vehicles more likely than others to fail a Smog Check inspection. Vehicles identified by the HEP must receive certification at a STAR certified Test Only station or STAR certified Test and Repair station.
- 2% Random Sample. For program evaluation purposes, 2% of the vehicles in Enhanced Areas are randomly selected for certification at a STAR Test Only station or STAR Test and Repair station.

Directed vehicles can only receive Smog Check certification from STAR Test Only or STAR Test and Repair stations. Ordinary Test Only and Test and Repair stations may perform the needed repairs but must refer the vehicle back to a STAR certified station for Smog Check certification. When applicable, a *directed vehicle* may also be certified by a Referee facility. (For more information about STAR station certification, see section 1.2.4).

H&S § 44010.5, § 44014.7, § 44024.5, CCR § 3392.2, § 3340.41 (e)

1.1.9 Gross Polluters

A *gross polluter* is a vehicle with tailpipe emissions exceeding the gross polluter exhaust emissions standards prescribed in CCR § 3340.42.

- A vehicle identified as a *gross polluter* may only receive certification from a STAR Test Only station, a STAR Test and Repair station or, when applicable, a Referee facility. (For more information about STAR station certification, see section 1.2.4).
- With the exception of government agency vehicles and permanently registered fleet vehicles, gross polluting vehicles may be eligible for the Consumer Assistance Program (CAP) or a repair cost waiver. (See section 1.9.0 for more information).

H&S § 39032.5, § 44014.2, § 44019, § 44020, CCR § 3340.41 (e), 3340.42,

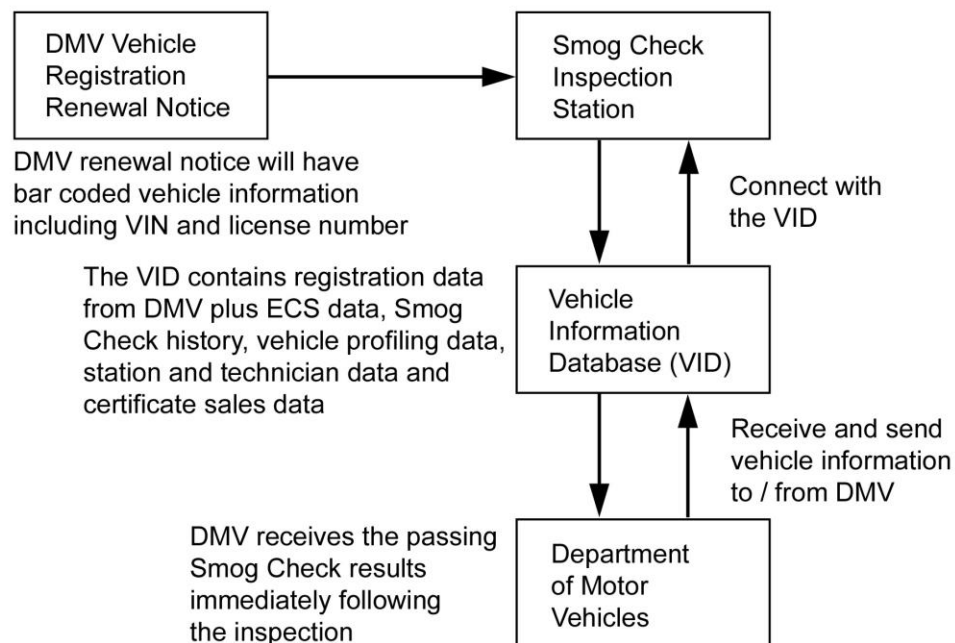
General Information

1.1.10 Electronic Transmission Network

The Electronic Transmission (ET) Network enables the inspection systems to automatically connect to the Vehicle Information Database (VID) and allows stations to issue electronic certificates. Vehicle certification information is sent to the VID, which updates DMV records. The printed Vehicle Inspection Report provides the customer with inspection results and also serves as proof that a Smog Check certificate was sent to DMV. Other ET functions include:

- Automatic upload of vehicle information. When connected to the VID, many vehicle data fields in the inspection system automatically fill, saving time and reducing error;
- Immediate update of Smog Check certificates and test information;
- Immediate update of inspector / technician information;
- Timely access to critical management and enforcement data;
- Electronic access to inspection and vehicle information.

The ET network is operated by a private contractor who charges the station a fee for each test record transmitted to the VID.



Electronic Transmission Flow Chart

General Information

1.1.11 Smog Check Certificate Purchases

Smog Check certificates may be ordered through the inspection system, or purchased by mail. To order certificates through the inspection system, the station must sign up with the ET contractor to obtain an Automated Clearing House (ACH) electronic debit account. The ACH debit transaction is the banking process that allows the station to authorize a debit of the station's bank account to purchase certificates electronically through the inspection system.

For more information contact the ET contractor at (866) 966-7664.

For stations that do not elect to purchase certificates electronically using the ACH, certificates can be purchased by mail. An order form is available on the smog check website (www.smogcheck.ca.gov) and should be mailed with a check to:

Bureau of Automotive Repair
Department of Consumer Affairs
Attention: Cashiering Services
1625 North Market St, Ste 100
Sacramento, CA 95834

Station Definitions

1.2.0 Test Only Stations

Test Only stations are licensed to conduct Smog Check inspections only.

No repairs or diagnoses can be performed on vehicles at a Test Only station, except for those minor repairs listed below. There shall be no charge to the customer for these minor repairs.

- Minor repairs of components damaged by station personnel during the inspection at the station;
- Minor repair that is necessary for the safe operation of the vehicle while at the station;
- Minor repairs, such as the reconnection of hoses or vacuum lines.

BAR directs a portion of the enhanced area fleet to STAR certified stations for inspection and certification. In addition, identified *gross polluters* can only receive certification from a STAR certified station, or BAR Referee. See Section 1.2.4 for more information about STAR station certification requirements.

Test Only stations are not limited to testing *directed* or *gross polluter* vehicles. Any vehicle owner may choose to have their vehicle inspected at a Test Only station.

Test Only stations shall make available to each customer a BAR prepared list of stations in their area licensed to perform Smog Check related repairs. The station locator tool linked from the main page of the Smog Check website serves as this list. Stations may refer the motorist to the website station locator or they may download the information and make it available at the station. Test Only stations shall not refer a vehicle owner to a particular automotive repair dealer or provider of Smog Check repair services.

H&S § 44010.5, § 44014.2, §, CCR § 3340.16, § 3340.41

1.2.1 Repair Only Stations

Repair Only stations are licensed to diagnose and repair vehicles in the Smog Check program. Repair Only stations **do not** perform official Smog Check inspections.

A Repair Only station is not obligated to accept a vehicle for repair if the station, as a matter of policy, chooses not to repair certain types, makes or models of vehicles, or certain types of inspection failures.

A Repair Only station shall only accept a vehicle for repair if the station has the necessary equipment, tools, personnel, diagnostic and repair materials to repair that vehicle, if not, the vehicle shall not be accepted for repair.

CCR § 3340.16.4

1.2.2 Test and Repair Stations

Test and Repair stations are licensed to conduct inspections and, when needed, diagnose, adjust and repair vehicles subject to Smog Check.

Vehicles directed to STAR stations may not be tested for certification at an ordinary Test and Repair station.

STAR Station Certification

In addition to ordinary Smog Check inspection and repair services, STAR station certification allows Test and Repair stations to:

- Issue certificates to identified *gross polluters*,
- Perform initial inspections and issue certificates to *directed vehicles*,
- Perform state subsidized repair, and

See section 1.2.4 for information about STAR station certification. For more information about *directed vehicles* and identified *gross polluters*, see sections 1.1.8 and 1.1.9 respectively.

H&S § 44014, § 44014.2, § 44032, CCR § 3392.2.1 § 3392.3.1, § 3392.5.1, § 3392.6.1

1.2.3 State Referee

The State Referee provides special test services, including unique services not performed in conventional Smog Check stations. For more information, see Section III.

H&S § 44014, § 44017.4

Station Definitions

1.2.4 STAR Station Certification

Stations consistently meeting a high standard for quality inspections may qualify for the STAR certification program. With STAR certification, both Test Only stations and Test and Repair stations can inspect and certify *directed vehicles* and vehicles identified as *gross polluters*. STAR certified Test and Repair stations also provide state subsidized repair through the Consumer Assistance Program. See sections 1.1.8, 1.1.9 and 1.9.0 for more information about *directed vehicles*, *identified gross polluters*, and the Consumer Assistance Program.

STAR certified stations are not limited to testing *directed* or *gross polluter* vehicles. Any vehicle owner may choose to have their vehicle inspected at a STAR certified station. Furthermore, STAR certified Test and Repair stations are not limited to repairs performed under the Consumer Assistance Program.

STAR Station Eligibility Requirements:

A licensed Smog Check station seeking STAR certification shall meet all of the following eligibility requirements from the date the application is received by the Bureau of Automotive Repair (BAR):

1. The station must not have had its STAR certification invalidated within the most recent six month period.
2. Stations must meet Follow-up Pass Rate (FPR) requirements over the prior six-month evaluation period as reported on July 1st and January 1st by the Bureau:
 - A. Smog Check technicians employed at the station must have FPR scores greater than or equal to 0.4.
 - B. If a station employs technicians without FPR scores, the station FPR score cannot be less than 0.4.
3. The station's Similar Vehicle Failure Rate (SVFR) over the preceding calendar quarter (e.g. Jan., Feb., Mar.) must meet or exceed 75% of the industry-wide failure rate for similar vehicles, as calculated quarterly by the Bureau.
4. The stations in Enhanced Smog Check Program areas must not have Gear Shifting Incidents on more than 2% of the vehicles certified in the preceding calendar quarter, as calculated by the Bureau. Gear Shift Incidents are inspections where the engine RPM during an ASM test is elevated to an extent suggesting that the vehicle was placed in the incorrect gear during the test.
5. The station must have fewer than two Excessive Test Deviations in the preceding calendar quarter, as calculated by the Bureau. Excessive Test Deviations occur under the following circumstances:
 - A. Timing Test: A station's rate in Enhanced Smog Check Program areas for failing to perform the ignition timing test on vehicles that should have been tested is greater than average for stations inspecting similar vehicles.
 - B. Fuel Cap Test: The station's rate for failing to perform the fuel cap pressure test on vehicles that should have been tested is greater than average for stations inspecting similar vehicles.

Station Definitions

1.2.4 STAR Station Certification continued...

- C. Low Pressure Fuel Evaporative Test (LPFET): The station's rate for failing to perform the LPFET on vehicles that should have been tested is greater than average for stations inspecting similar vehicles.
 - D. OBDII Test: The station's rate for failing to perform the OBDII functional test on vehicles that should have been tested is greater than average for stations inspecting similar vehicles.
 - E. OBDII Readiness: The station's rate for certifying vehicles during an initial test with the maximum allowable number of unset OBDII readiness monitors is greater than average for stations inspecting similar vehicles.
 - F. ASM Inspection Restart: The station's rate for restarting ASM inspections is greater than average for stations inspecting similar vehicles.
 - G. Inspection Abort: The station's rate for aborting inspections is greater than average for stations inspecting similar vehicles on the same brand of the Emissions Inspection System.
- 6. The station must not have been issued any inspection-based citations pursuant to section 44050 of the Health and Safety Code within the preceding one-year period, nor employ technicians who have been issued any citations pursuant to section 44050 of the Health and Safety Code within the preceding one-year period.
 - 7. The current or any previous registration or license of the station owner, manager or licensed Smog Check technician employed by the station must not have been issued an order of suspension, a probationary order, or any other disciplinary order within the preceding three-year period.
 - 8. The station owner, manager and licensed Smog Check technicians or other employees of the station:
 - A. Must not have been convicted of a crime within the preceding three-year period that is substantially related to the duties of a licensed Automotive Repair Dealer, Smog Check station, or Smog Check technician.
 - B. Must not be serving a probationary period as a result of any such criminal proceeding.
 - C. Must not have been found liable in a civil proceeding, excluding small claims matters, within the preceding three-year period, for acts or omissions that are substantially related to the duties of a licensed Automotive Repair Dealer, Smog Check station, or Smog Check technician.
 - 9. The station must not have engaged in any conduct that would be cause for discipline of the station's Automotive Repair Dealer registration or Smog Check station license.
 - 10. The station must be in compliance with all of the following:
 - A. Licensure and license posting requirements
 - B. Signage requirements
 - C. Estimate, repair order, invoice and record keeping requirements
 - D. Possession of all required manuals and publications
 - E. Possession of all required tools and equipment in proper working order

The application for STAR certification provides the essential qualification criteria. You may download an application from the Smog Check website (www.smogcheck.ca.gov), or you may request one from BAR's Licensing Unit at (916) 403-8477 or (866) 806-8509.

Station Licensing Requirements

1.3.0 Station Licensing Procedures

An Automotive Repair Dealer (ARD) registered with BAR may be licensed as a Test Only, Repair Only, or Test and Repair Smog Check station, in part, by satisfying the following requirements:

- Submit a completed application and station license fee to BAR;
- Employ at least one licensed inspector and/or technician, appropriate for the station type;
- Have on site the inspection and repair equipment specified in CCR §3340.16, §3340.16.4, and § 3340.16.5, as applicable to the station type. Sections 1.4.0 - 1.4.4 lists required equipment;
- Pass a BAR inspection of the station satisfying the criteria established for licensed stations.

STAR certification may be granted to stations that apply and meet eligibility standards. For more information, see section 1.2.4.

No person shall operate a smog check station unless a license to do so has been issued by the department.

CCR 3340.10, 3340.15, 3340.16, 3340.16.4, 3340.16.5.

1.3.1 License Duration

A station license will be granted for one year from the last day of the month in which the license is issued unless renewed, suspended, rescinded or terminated by operation of law. The bureau may advance the expiration date to correspond with the automotive repair dealer registration expiration date.

CCR § 3340.10

1.3.2 License Fees

Station license fee:

- The annual license fee is \$100;
- If a renewal license fee is submitted or postmarked after the date of license expiration, a \$50 delinquency fee will be added to the \$100 renewal fee.

CCR § 3340.10

Station Licensing Requirements

1.3.3 Replacement License

Replacement License Requirements:

- **Change of Address or Business Name.** Contact the BAR Licensing Unit for the appropriate forms in the event of a change of name or address of a licensee (not the result of a change of ownership). No fee will be required.
- **Change of Ownership.** In the event of a change of ownership, (adding or deleting partners, incorporating, etc.) new applications must be submitted to BAR for all BAR issued licenses. Appropriate fees must accompany the new license applications.
- **Lost, Destroyed or Mutilated License.** In the event a license is lost, destroyed or mutilated, contact the BAR Licensing Unit for instruction. Any lost license that is later found shall be returned to BAR.

The BAR Licensing Unit may be contacted at (916) 403-8477 or toll free at (866) 860-8509

You may request forms from your local BAR field office or, or you may download them from the Smog Check website, www.smogcheck.ca.gov.

No person shall operate a smog check station unless a license to do so has been issued by the department.

CCR § 3340.10

1.3.4 Stations Ceasing to Operate

A station shall cease performing the functions of a licensed station when its license has expired, or has been surrendered, suspended or revoked. In these cases, the Smog Check sign must be immediately removed or covered.

If a station no longer employs a Smog Check inspector and/or technician (as applicable), the Smog Check sign must be immediately removed or covered. If the station does not employ a Smog Check inspector and/or technician (as applicable) within 60 days, the station shall surrender its license to BAR.

CCR § 3340.23

Equipment Requirements

1.4.0 Station Equipment and Materials

Refer to the Smog Check Manual Section 1.8.0 for specific equipment and materials requirements.

In general, all stations must to possess the equipment, tools and reference materials needed to inspect or, as applicable, repair the type of vehicles being inspected and/or repaired at their particular station. Additionally, STAR certified stations must possess all inspection equipment for all vehicle types subject to Smog Check, including directed vehicles. STAR test and repair stations must also have the minimum repair tools for all vehicle types subject to Smog Check inspection, as specified in the Smog Check Manual.

CCR § 3340.16, 3340.16.4, 3340.16.5

Licensed Inspector and Repair Technician Requirements

1.5.0 Inspector and Repair Technician Requirements

Each Smog Check station must employ at least one licensed inspector and/or repair technician, who is licensed for the station license type. A licensed inspector and/or technician must be present during all hours the station is open for the business of performing Smog Check test and/or repairs, as applicable.

- Licensed inspectors employed at Test Only stations are permitted to inspect vehicles only. No adjustments, repairs or diagnosis, except for minor repairs, as discussed in section 1.2.0.
- Licensed inspectors employed at Test and Repair stations are permitted to inspect vehicles only. Smog Check related adjustments, diagnosis and repairs must be performed by a licensed Smog Check Repair technician. Smog Check certification restrictions apply to *directed vehicles* and vehicles identified as *gross polluters*; see sections 1.1.8 and 1.1.9.

H&S § 44014, CCR § 3340.15, § 3340.28

Licensed Inspector and Technician Requirements

1.5.1 Licensee Expectations

A licensed inspector and technician works with government and the public to clean California's air. To meet this need, licensed inspectors and technicians are expected to conduct themselves in an ethical and professional manner and do each of the following, when applicable, and within the scope of their license and the type of station where employed:

- Understand the fundamentals of vehicle engines and emission controls;
- Determine the type of Smog Check inspection required;
- Identify vehicles that must be inspected by a STAR certified station, and, when applicable, inform the customer about services provided by the Referee;
- Identify each vehicle by year, make, model and certification type;
- Understand and, as needed, use inspection, diagnostic, and repair reference materials to determine required emission control equipment and vacuum hose routings;
- Determine what emission control equipment is required on a vehicle, evaluate the condition of the required equipment, and accurately report the condition;
- Operate Smog Check test equipment and diagnostic and repair equipment;
- Perform complete and accurate visual, functional and emission tests on the wide variety of vehicles subject to Smog Check inspection;
- Review and interpret test results and explain them to customers;
- Evaluate test results and diagnostic information to determine causes of failure;
- Effectively diagnose and repair problems;
- Know and follow the requirements for customer authorization, estimates, invoices, and record keeping;
- Explain to a customer the benefits of Smog Check, as well as explain the benefits of their vehicle's emission controls;
- Understand and communicate to motorists the options available through the Consumer Assistance Program and Repair Cost Waivers.

Licensed Inspector and Technician Requirements

1.5.2 Smog Check Inspector

Duties: A Smog Check Inspector license allows an individual to inspect and certify vehicles subject to Smog Check inspection throughout California. A Smog Check Inspector may not perform Smog Check related diagnoses and/or repairs. All official Smog Check inspections must be completed by a licensed Inspector in a licensed Test Only or Test and Repair station.

Qualifications: To become licensed as a Smog Check Inspector, an individual must pass a state administered examination. Examination applicants first must successfully complete Level 1 and Level 2 training, as applicable.

- Level 1 Training - Engine and Emission Controls

Level 1 Training is required for Inspector candidates with little or no experience.* This training provides students with the knowledge of engine and emission control systems necessary to conduct accurate smog inspections. Successful completion, in part, includes the ability to demonstrate minimum levels of competency related to engine and emission control systems. The training is a minimum of 68 hours and must be completed at a BAR-certified school.

*Experienced candidates may skip Level 1 training if they: Possess ASE A6, A8 and L1 certification; or possess an AA/AS degree or Certificate in automotive technology and have at least 1 year experience; or have at least 2 years of experience and have completed BAR specified training.

- Level 2 Training - Smog Check Procedures

Level 2 Training must be completed by all Inspector license applicants. This training covers the program rules, regulations and procedures. Successful completion, in part, includes the ability to demonstrate minimum levels of competency related vehicle inspections. Training is a minimum of 28 hours and must be completed at a BAR-certified school.

License Renewal: Applicants for license renewal must meet the following Update Training requirements:

- *Update Training* - Applicants for license renewal must provide proof that they have successfully completed update training within the last two years. Update training may be up to 4 hours in length.

H&S 44031.5 (e), CCR § 3340.28

Licensed Inspector and Technician Requirements

1.5.3 Smog Check Repair Technician

Duties: A Smog Check Repair Technician license allows an individual to diagnose and repair vehicles subject to Smog Check inspection throughout California. All Smog Check repairs must be completed by licensed Repair Technicians in licensed Test and Repair or Repair Only stations.

Qualifications: To become licensed as a Smog Check Repair Technician, an individual must pass a state examination. Examination applicants must meet one of following four criteria:

- 1) Possess certification in the categories of Electrical/Electronic Systems (A6), Engine Performance (A8) and Advanced Engine Performance Specialist (L1) from the National Institute for Automotive Service Excellence; or
- 2) Possess an Associate of Arts or Associate of Science degree or higher in Automotive Technology from a state accredited or recognized college, public school, or trade school, and have one year automotive repair experience in the engine performance area; or
- 3) Possess a certificate in automotive technology from a state accredited or recognized college, public school, or trade school with a minimum of 720 hours of course work that includes at least 280 hours in the engine performance area, and have one year of automotive repair experience in the engine performance area; or
- 4) Have a minimum of two years of automotive repair experience in the engine performance area, and successfully complete BAR Specified Diagnostic and Repair Training within the last five years.

License Renewal: Applicants for license renewal must meet the following requirements:

Certification - Possess a valid certification in the categories of Electrical/Electronic Systems (A6), Engine Performance (A8) and Advanced Engine Performance Specialist (L1) from the National Institute for Automotive Service Excellence (ASE);* and

Update Training- Provide proof of successful completion of 16 hours of update training from a BAR-certified training institution within the last two years.

* Applicants who have successfully completed the BAR Specified Diagnostic and Repair Training within the last five years are not required to possess the ASE certifications.

H&S § 44031.5, CCR § 3340.28

Licensed Technician Requirements

1.5.4 License Expiration Date

An inspector and technician license shall expire on the last day of the month in which the second birthday occurs after the date of issuance of the license. Initial expiration dates are calculated from the date the BAR is notified that an applicant has passed the licensing examination. Once a license has been issued that expires in the birth month, subsequent renewal licenses will expire on the last day of the birth month, two years later.

An Inspector or technician whose license has expired shall immediately cease to inspect, test, or repair failed vehicles.

CCR § 3340.29, § 3340.30

1.5.5 Additional Information for Licensed Inspectors and Technicians

Change of Employment: A licensee must notify BAR in writing within two weeks of any change of employment. CCR § 3340.30

License Renewal: Approximately 90-120 days prior to the license expiration, BAR will send the licensee a courtesy renewal notice to the address on file. The licensees are responsible for submitting a timely (prior to expiration) and complete renewal even if he or she did not receive a courtesy renewal notice. If you have not received your renewal notice, you may obtain one from the Smog Check website, or you may contact the BAR Licensing Unit- (916) 403-8477. CCR § 3340.29

Expired License: A licensed inspector or technician, whose license has expired, shall immediately cease to inspect, test, diagnose or repair vehicles pursuant to the requirements of the Smog Check program. CCR § 3340.29

Replacement License: A licensed inspector or technician whose license is lost, destroyed, mutilated or stolen may request a replacement (duplicate) license from BAR's license examination contractor. A form is located on the Smog Check website (www.smogcheck.ca.gov) or, technicians may contact the BAR Licensing Unit to obtain the form (916) 403-8477.

Copy of License: A licensed inspector or technician may obtain a copy (duplicate) of their wall license to post in a second place of employment. Technicians may request a duplicate license from BAR's license examination contractor. A request form is located on the Smog Check website (www.smogcheck.ca.gov) or, licensees may contact the BAR Licensing Unit to obtain the form (916) 403-8477.

Licensed Technician Requirements

1.5.6 Suspension and Revocation of Licenses

BAR may suspend or revoke the license of, or pursue other legal action against, a licensee, if the licensee (inspector, technician and / or station):

- Fraudulently certifies vehicles or participates in the fraudulent inspection of vehicles. A fraudulent inspection includes, but is not limited to, all of the following:
 1. Clean piping;
 2. Clean plugging;
 3. Tampering with a vehicle emission control system or emission inspection system;
 4. Tampering with a vehicle in a manner that would cause the vehicle to falsely pass or falsely fail an inspection.
- Knowingly and willfully resists, delays, or obstructs any employee of the bureau or, if applicable, any employee of the quality assurance contractor of the bureau in carrying out the lawful performance of his or her duties; or
- Falsely or fraudulently issues or obtains a certificate of compliance;

H&S § 44072.10 (c), § 44072.10 (d), CCR § 3340.24

Station Operation

1.6.0 Work Area

Testing and repairing of vehicles must be performed in a work area of the station that has been approved by BAR during the station licensing inspection. Other work may be performed in the approved area, as desired. Except for heavy duty vehicles, the work area shall be within a building and shall be large enough to accommodate the type of vehicle being serviced.

In the case of the testing and repair of heavy-duty vehicles, the work area need not be in a building. However, the Smog Check inspection system used at the station must only be used within a building.

The work area shall be kept clean and orderly.

CCR § 3340.15

1.6.1 Licensed Inspector and/or Technician Required

An appropriately licensed inspector and/or technician shall be present during all hours the station is open for the business of inspecting and/or repairing vehicles pursuant to the Smog Check program, as applicable.

CCR § 3340.15 (b)

1.6.2 License Display

As applicable, licenses for the station, inspector, and/or repair technician shall be:

- Posted prominently under glass or other transparent material;
- Located in an area frequented by customers.

CCR § 3340.15, § 3351.3

Station Operation

1.6.3 Posting of Prices

The station shall post conspicuously in an area frequented by customers a list of prices for the specific activities for which it is licensed.

- Posted prices shall include the price charged for inspections, re-inspection, if any, and any other associated charges.
- The station shall post any additional charges such as prices for vans and/or heavy duty vehicles, if such prices differ from passenger car inspection prices.
- The hourly labor charge for repairs shall be posted, if the station imposes an hourly charge for repairs.
- The price of a Smog Check certificate shall be posted separately from the price of the inspection and re-inspection, if any. Note: Customers shall be charged the same price for certificates as that paid by the station. Sales tax does not apply to the sale of the certificate.

CCR § 3340.15, § 3340.35

1.6.4 Records

The station shall make, keep secure, and have available for inspection upon request by BAR, or its representative, legible records showing the station's transactions as a licensee for a period of not less than three years after completion of any transaction to which the records refer.

All records shall be open for reasonable inspection and/or reproduction by BAR or its representative for a period of not less than three years. Station records required to be maintained shall include copies of:

- Repair orders relating to inspections, and repair activities;
- Vehicle Inspection Reports; and
- Records of all certificates in stock and/or issued.

The above listed station records shall be maintained in such a manner that the records for each transaction are kept together, to facilitate access to records by BAR or its representative.

CCR § 3340.15 (f)

Customer Privacy - The California Civil Code § 1798.81 requires that records containing customer information be destroyed or modified to make them unreadable when discarded.

Station Operation

1.6.5 Smog Check Signs

Smog Check Sign - All licensed stations shall display in public view a Smog Check sign that meets the following specifications:

- The Smog Check sign shall be 24 inches in width by 30 inches in height;
- The sign shall be made of 0.040 aluminum or steel; and
- The design and content of the Smog Check sign shall be supplied by BAR via a camera ready format. For more information, refer to the smog check website (www.smogcheck.ca.gov).

Station Service Signs - Separate service signs shall be posted for Test Only stations, Repair Only stations, STAR certified stations, and stations that only inspect and/or repair heavy duty vehicles, and stations that do not inspect heavy duty vehicles.

The service signs shall meet the specifications in BAR regulations and be securely fastened to, or immediately below, the required Smog Check station signs.

Repair Cost Limit Sign - Each Smog Check station shall display a BAR provided cost limit sign conspicuously in an area frequented by customers.

H&S § 44017.3, CCR § 3340.22, 3340.22.1, 3340.22.2, 3392.3.1

1.6.6 Unlicensed Activity

Smog Check tests and repairs must only be performed by a licensed technician in a licensed Test and Repair station.

H&S § 44014, § 44032

Station Operation

1.6.7 Availability to the Public / Full Service to Customers

Licensed Smog Check stations must be open and available to the general public for Smog Check services. Stations may not discriminate based on race, color, sex, religion, ancestry, disability, marital status, or national origin.

Limited Service - Test and Repair Station- Before conducting the initial inspection, stations shall disclose to the customer orally and in writing (on the estimate) any of the following:

- A Test and Repair station does not have the adequate equipment, personnel, tools or reference materials to repair the vehicle, should the vehicle fail its inspection.
- A Test and Repair station, as matter of policy, does not repair certain types, makes or models of vehicles.
- A Test and Repair station, as matter of policy, does not repair certain types of vehicle inspection failures.

Limited Service - Repair Only Station

- A Repair Only station shall only accept a vehicle for repair if the station has the necessary equipment, tools, personnel, diagnostic and repair materials to repair that vehicle. If not, the vehicle shall not be accepted for repair.
- A Repair Only station is not obligated to accept a vehicle for repair if the station, as a matter of policy, chooses not to repair certain types, makes or models of vehicles, or certain types of inspection failures.

CCR § 3340.15 (a), § 3340.16.4, § 3340.16.5, B&P 125.6

1.6.8 Sublet Inspection and Repair

A Licensed Smog Check station cannot sublet Smog Check inspections or repairs required as part of the Smog Check program. Some exceptions apply. See section 2.1.6 for more information.

Station Audits

1.7.0 BAR Station Audits

BAR may visit stations to evaluate the effectiveness of tests and/or repairs made to vehicles subject to Smog Check inspection. Station audits may include but are not limited to:

- Audit emission analyzer accuracy, including operation of BAR code reader and/or dynamometer;
- Review the station's certificate records and smog inspection and/or repair invoices;
- Verify that inspection procedures and repair standards are being followed by observing Smog Check inspections and/or repairs being performed;
- Verify that the correct BAR approved calibration gases are being used;
- Conduct a visual inspection of the EIS condition;
- Collect and verify data from the EIS;
- Verify that the required signs and licenses are posted properly;
- Inspect required test equipment and reference material.

H&S§ 44035 (b), CCR § 3340.15(h), 3340.10 (d)

Repair Assistance, Cost Waivers

1.8.0 Consumer Assistance Program

The Consumer Assistance Program (CAP) offers two options to assist motorists.

Repair Assistance: Eligible low income motorists whose vehicle fails a biennial Smog Check may receive up to \$500 in emissions related repairs. Eligible motorists must take their vehicle to a STAR certified Test and Repair station to receive CAP subsidized repairs.

Low Income Eligibility- Motorists whose household income is at or below 225% of the federal poverty guidelines may qualify for repair assistance. For the latest information, refer to the Smog Check website (www.smogcheck.ca.gov) or contact CAP at (866) 272-9642.

Vehicle Retirement: Ordinary motorists who meet the eligibility requirements can receive \$1,000 to retire their vehicle. Low income motorists who meet the eligibility requirements can receive \$1,500 to retire their vehicle. Two options apply:

- A qualified motorists whose vehicle has failed its most recent Smog Check inspection may opt to retire the vehicle rather than repair the Smog Check failure; OR
- A qualified motorist whose vehicle is not due for biennial inspection may opt to retire their vehicle.

Eligibility requirements to retire a vehicle may be found on the Smog Check website (www.smogcheck.ca.gov) under the CAP tab/button.

Consumer Application: Motorists interested in CAP must apply and qualify for repair assistance or vehicle retirement. A motorist may obtain a CAP application from the Smog Check website www.smogcheck.ca.gov, by calling the DCA Consumer Information Center (800) 952-5210, or by calling the CAP administration office at (866) 272-9642.

Station Application: Licensed Test and Repair stations interested in performing CAP subsidized repairs must obtain STAR certification. The application for STAR certification details the station qualification criteria. You may download an application from the Smog Check website (www.smogcheck.ca.gov), or you may request one from BAR's Licensing Unit at (916) 403-8477.

CCR § 3392.2, 3394.1, 3394.6

Repair Assistance, Cost Waivers

1.8.1 Repair Cost Waivers

California law limits the amount of money required to be spent on repairs needed to pass a biennial Smog Check inspection to \$650. In general, a customer may qualify for a repair cost waiver if their vehicle fails to meet the biennial Smog Check standards after the customer has spent a minimum of \$650 on repairs at a Smog Check station. **Some exceptions apply for Visible Smoke Test failures; see Visible Smoke Test information on the next page.**

The repair cost waiver postpones the Smog Check certificate requirement for up to two years beginning on the due date of vehicle registration renewal. A vehicle that receives a waiver must be fully repaired by the next biennial Smog Check inspection requirement or title transfer. Of course, the customer can choose to repair the vehicle so that it passes the inspection and forgo the repair cost waiver option.

A repair cost waiver can only be issued by a Referee facility.

Repair cost waivers do not apply to:

- Vehicles that received a cost waiver for any previous biennial inspection. (A vehicle cannot be issued more than one waiver under the same ownership and must be repaired before change of ownership. After changing ownership, the new owner may be eligible for another waiver);
- Vehicles with tampered emission control equipment. (A repair cost waiver can only be issued after all tampered systems have been repaired);
- Vehicles that are undergoing transfer of ownership;
- Initial registration of a direct import (grey market) vehicle, a vehicle previously registered outside the state, a dismantled/salvaged vehicle, a vehicle with an engine change, an alternate fuel vehicle, a specially constructed vehicle (SPCNS);
- Vehicles that fail the Visible Smoke Test and the owners' income exceed 225% of the federal poverty guidelines.

Repair Assistance, Cost Waivers

1.8.1 Repair Cost Waivers continued...

Visible Smoke Test

A repair cost waiver is only available to low and moderate income motorists whose vehicles fail the **Visible Smoke Test** and the following conditions are met:

- Low Income - The motor vehicle owner has a household income that meets the CAP low income eligibility standard.
- Moderate Income - The vehicle owner has a household income greater than the limit for CAP low income eligibility, but less than or equal to 225% of the federal Poverty Guidelines.
- Moderate Income - The motor vehicle owner is not receiving any form of public assistance from any agency.
- The motor vehicle owner's household income has been verified in accordance with paragraph (2) of subsection (b) of Section 3394.6.
- The motor vehicle's required emissions control equipment is not missing and has not been rendered partially inoperative or inoperative as a result of tampering.

Note: Customers may be eligible for the Consumer Assistance Program (CAP) discussed in section 1.8.0. Always inform customers about CAP options before beginning diagnosis and repair.

H&S § 44015, § 44017, CCR § 3340.43, 3394.6

Customer Authorization

1.9.0 Estimate Preparation

A written estimate must be provided in accordance with the Automotive Repair Act before the inspection and/or repair can be conducted.

- An inspection estimate provided by a Test and Repair station shall contain a notice that informs the customer that they may choose another station for needed repairs and subsequent inspections.
- No licensed Smog Check station shall require, as a condition of performing the test, that any needed repairs or adjustment be done by the person, or at the facility of the person, performing the test.

A booklet entitled “Write It Right” is available from BAR to assist in understanding the preparation of written estimates and work orders. Write It Right is available on the Smog Check website at (www.smogcheck.ca.gov) or you may contact your local BAR field office to obtain a copy.

BP § 9884.9, H&S § 44033 (c), CCR § 3353

Stations Unable to Make Certain Repairs

Before conducting the initial inspection, stations shall disclose to the customer both orally and in writing (on the estimate) any of the following:

- A Test and Repair Station does not have the adequate equipment, personnel, tools or reference materials to repair the vehicle, should the vehicle fail its inspection.
- A Test and Repair Station, as matter of policy, does not repair certain types, makes, or models of vehicles.
- A Test and Repair Station, as matter of policy, does not repair certain types of vehicle inspection failures.

CCR § 3340.16.5

1.9.1 Station Obligations

Licensed Smog Check stations are expected to conduct themselves in an ethical manner consistent with the laws and regulations governing the inspection and repair of vehicles subject to Smog Check. In part, this includes:

- Providing motorists with complete estimates for inspections and, when applicable, diagnosis and repairs;
- Informing motorists of applicable program options, such as the repair cost waiver, Consumer Assistance Program, and Referee services;
- Informing motorists of possible emissions warranty coverage for defective emissions related components. For more information, see section 2.2.0;
- Only requiring services and repairs consistent with vehicle manufacturer standards or nationally recognized industry practices.

Miscellaneous Inspection Scenarios

1.10.0 Garaged Outside Program Area

If a vehicle is registered in the Enhanced Area, but is garaged in a Basic Area, it must undergo an Enhanced Area inspection. Exceptions apply to fleet vehicles. See section 1.11.3 for fleet information.

H&S § 44011(b)

1.10.1 Motor Homes

Motor homes are often built using chassis and engines of earlier model years than the completed coaches (bodies). Motor home emission control requirements are determined by the chassis/engine model year, even though DMV registers the vehicle by the model year of the coach. The inspection systems allow for a three year separation between the coach and chassis model years.

In Enhanced Areas, the ASM test requirement applies only to motor homes under 8501 GVWR - CCR § 3340.42

If the motor home is equipped with a BAR Referee Label, see Section III.

1.10.2 Specially Constructed (SPCNS) Vehicles or Kit Cars

Vehicle Code 580 – “A “specially constructed vehicle” is a vehicle which is built for private use, not for resale, and is not constructed by a licensed manufacturer or remanufacturer. A specially constructed vehicle may be built from (1) a kit; (2) new or used, or a combination of new and used, parts; or (3) a vehicle reported for dismantling when reconstructed, does not resemble the original make of the vehicle dismantled. A specially constructed vehicle is not a vehicle which has been repaired or restored to its original design by replacing parts.”

SPCNS vehicles must be equipped with a BAR Referee Label. The Referee label provides needed engine and emission control information.

- If the vehicle has a BAR Referee Label, use the emission control requirements listed on the label.
- If the vehicle does not have a BAR Referee Label, it must be inspected by a state Referee facility.

For information about BAR Referee labels, see Section III.

H&S §44017.4

Miscellaneous Inspection Scenarios

1.10.3 Fleet Vehicles

Government Fleet: Smog Check inspection requirements apply to government fleet vehicles. To help verify compliance, government fleets are required to submit an annual inspection report (Annual Reporting Transmittal) found at www.smogcheck.ca.gov.

Government fleets are issued a BAR identification number known as a “BAR file number”. Unless the fleet representative requests a certificate of compliance, the BAR file number is required when inspecting a government fleet vehicle.

- **Certificate Not Required** - A biennial certificate of compliance is not required for a government fleet vehicle. On BAR97 EIS, selecting “G” or “government” for the vehicle type will cause the EIS to ask for the BAR file number, thereby preventing a certificate of compliance from being issued. The BAR-OIS will ask if the vehicle is government and entering “yes” will cause a prompt for the BAR file number. In either case, **no certificate is issued and no certificate fee shall be charged.**
- **Request for Certificate-** A government agency may request an inspection without a BAR file number, or may request a certificate of compliance for title transfer purposes. In these cases, do not select “government” as the vehicle type. Proceed with the inspection as you would for any other vehicle. If the vehicle passes, a Smog Check certificate will be issued. The certificate fee applies in the same manner as a non-government vehicle.
- **License Plate** - If a government vehicle displays an “E” at the beginning of the license plate, do not enter the “E.” Some government license plate numbers or assigned vehicle IDs may exceed seven digits. In these cases, enter the last seven digits of the number. Note: If testing federal government vehicles the license plate issuing state will be District of Columbia (DC).

Government fleet vehicles are not eligible for repair cost waivers or consumer assistance.

Private Fleets: Private fleet inspection facilities must be licensed as a fleet Smog Check station and must employ licensed Smog Check technicians to conduct inspections and repair. Private fleet vehicles are subject to the test type applicable to the program area in which the vehicle is garaged and operated. Example: If a fleet vehicle is registered to an office in an enhanced area, but the vehicle is garaged and operated in a basic area, a basic area inspection would apply.

Private fleet vehicles are not eligible for repair cost waivers or consumer assistance.

If you have any questions regarding the fleet vehicle smog inspections, please contact BAR’s Fleet Operations Unit at (916) 403-0313

H&S § 44011(a) (7), § 44019, § 44020

Miscellaneous Inspection Scenarios

1.10.4 Military Personnel Vehicles

Federal law requires a Smog Check inspection for vehicles not registered in California but are owned and operated by non-resident military personnel on active duty in California. This requirement is independently enforced by each military base. Generally, military personnel must obtain a passing vehicle inspection report before a base access sticker can be issued; a certificate of compliance may not be required. The emissions inspection system provides inspection prompts for inspecting military personnel owned vehicles. Following these prompts will prevent the issuance of a certificate.

Federal Clean Air Act § 118

1.10.5 Clearance of Enforcement Documents

When a customer requests certification of a motor vehicle for correction of a violation noted on an enforcement form/citation, the Smog Check station shall certify (per citation requirements) that the correction has been made. In conjunction with such certification, the licensed inspector shall conduct a Smog Check inspection and issue a certificate of compliance, provided the vehicle passes the Smog Check inspection.

CCR§ 3340.36

1.10.6 Smog Check Help

Refer the Smog Check website (www.smogcheck.ca.gov) for information not addressed in this Guide or Smog Check Manual. You may also contact the closest BAR field office (locations and numbers can be found in Appendix C), or the Industry Help Desk at (866) 860-8509.

Consumers may contact the closet BAR field office, or the Consumer Information Center at 800-952-5210. The Smog Check website (www.smogcheck.ca.gov) is also a good source of information.

Smog Check Reference Guide

SECTION II

Sub-Section	Page
Vehicle Repair	1
Vehicle Warranty	5

Vehicle Repair

2.1.0 Repair General Overview

- In accordance with the B&P § 9884.9 and CCR § 3353, provide the customer an estimate for the specific work needed to diagnose and repair the inspection failure. For more information, see section 2.1.1.
- The repair cost waiver applies to emissions, visual and functional test failures, unless the failure is due to tampered emission controls. For information about the repair cost waiver, see section 1.8.1.
- Diagnosis and repair must be performed in accordance with industry standard procedures. See repair standard described in section 2.1.2.
- In accordance with B&P § 9884.8 and CCR § 3356, provide the customer an invoice detailing the diagnosis and repair(s) performed.

2.1.1 Repair Estimate

In accordance with B&P § 9884.9 and CCR § 3353, prepare an estimate for the specific work needed to bring the vehicle into compliance. As applicable, list the repairs necessary to bring the vehicle into compliance, including the causes of visual, functional, and emission failures. The estimate must include price for labor and parts.

The repair invoice must itemize the diagnoses, repair(s) and parts. General statements such as “tune-up”, “low emissions service”, “scope and adjust”, are not acceptable. Listed items must be specific i.e. replace O₂ sensor, set timing and RPM to manufacturer specifications, etc. When applicable, describe the on-board system fault code and the related system.

CCR § 3340.41.3, § 3356

An informational booklet called “Write It Right” is available to assist you in the preparation of estimates and invoices. Refer to the Smog Check web site (www.smogcheck.ca.gov) or contact your local BAR office to obtain a copy.

Vehicle Repair

2.1.2 Repair Standards

California Code of Regulations, Title 16, Chapter 33, § 3340.41(d) defines repair standards as follows:

“The specifications and procedures required by Section 44016 of the Health and Safety Code shall be the vehicle manufacturer’s recommended procedures for the emission diagnosis and repair procedures or the emission diagnosis and repair procedures found in industry-standard reference manuals and periodicals published by nationally recognized repair information providers. Smog Check stations and Smog Check technicians shall, at a minimum, follow the applicable specifications and procedures when diagnosing defects or performing repairs for vehicles that fail a Smog Check test.”

2.1.3 Pre-Repair Verification

Before proceeding with a Smog Check failure diagnosis and repair, a technician should consider the following:

- What do the inspection reports and, if applicable, repair records reveal about the failure?
- Have any conditions changed since the Smog Check inspection?
- What input can the motorist provide about the Smog Check failure? Has the motorist noticed any poor running conditions, fuel mileage drop, misfire, etc.
- Does the station have the tools, equipment and reference material necessary to diagnose and repair this type of vehicle?
- Does he or she have the expertise needed to diagnose and repair the failure?

Vehicle Repair

2.1.4 Priority of Repairs

A repair cost waiver cannot be issued for a vehicle with tampered emission control equipment, regardless of the repair costs. Therefore, correcting tampered emission controls should be considered before emissions or functional test failures, including OBD failures.

1. **Tampers:** Tampered emission control systems must be restored to operate as designed by the manufacturer. The repair cost waiver does not apply to the repair of tampered emission control systems.
2. **Emissions / Functional:** When repairing failed vehicles, remember that the program goal is to most effectively reduce vehicle emissions.

A customer may choose to authorize or decline any repair, and may choose to have the repairs performed by any licensed Test and Repair station, or Repair Only station.

See section 1.8.1 for repair cost limit information.

H&S § 44015, § 44017(d).

2.1.5 “Non Smog Check” Repair Dealers

Automotive repair dealers that are not Licensed Smog Check Repair Only or Test and Repair stations are prohibited from performing Smog Check related diagnoses and repairs.

H&S § 44014 (a), 44032

2.1.6 Sublet Repair

A Licensed Smog Check station cannot sublet Smog Check inspections or repairs required as part of the Smog Check program, except for the following:

- Repairs of a vehicle’s exhaust systems which are normally performed by muffler shops, provided that the malfunction is previously diagnosed by the specific station authorized by the customer to perform the vehicle repairs.
- Repairs of individual components that have been previously diagnosed as defective and removed by the specific station authorized by the customer to perform the vehicle repairs.
- Repairs of diesel-powered vehicles.
- Repairs to a vehicle’s transmission.
- Corrections to the vehicle’s on-board computer systems’ software provided that the malfunction has been previously diagnosed by the specific station originally authorized by the customer to perform repairs to the vehicle.

If sublet repair is necessary, the station must obtain authorization from the customer for the sublet work. Upon the customer’s request, the station must inform the customer of the location in which any sublet repair work will be performed. The station who obtained the original authorization is responsible for the sublet repair in the same manner as if the station or his or her employees had actually done the repair.

B&P §9884.9, CCR §3340.15 (i), §3359

Vehicle Repair

2.1.7 Owner Repairs

Owners of vehicles that fail a Smog Check inspection may repair their vehicles themselves.

2.1.8 EIS Manual Testing Mode

The BAR 97 EIS incorporates manual testing modes, which, in part, can be used in diagnoses of emission failures. The manual testing modes include:

- Emissions gas analyzer;
- Technician selected steady load (dyno only);
- ASM Diagnostic test (dyno only);
- Structured test drive (dyno only);
- Free-form test drive (dyno only).

Note: During a Smog Check inspection, the EIS compensates for sample dilution caused by small exhaust system leaks etc. However, this “Dilution Correction Factor” (DCF) may affect your gas analysis when diagnosing emission failures in manual mode. The EIS manual mode allows you to turn the DCF on and off. When diagnosing an emission failure, consider taking a reading with the DCF off and on. If the readings are much different, there may be an exhaust system leak.

The BAR OBD Inspection System (OIS) specification does not include manual or diagnostic functions, only the official inspection.

Vehicle Warranty

2.2.0 Emission Control System Warranty

Manufacturers of vehicles certified for sale in the USA are required by law to warrant that their emission control components will remain free from defects throughout the warranty period. California and Federal emissions warranties vary. **The warranty information provided in this reference guide is not intended to be all-inclusive. The warranties may vary from vehicle to vehicle and technicians should always refer to the warranty for each vehicle to determine applicable coverage.**

Inform the consumer if you find a defect that may be covered under warranty. The customer can choose to take the car to the new car dealer for repair.

2.2.1 Warranty Repair Requirements

Like any Smog Check related repair, warranty repairs resulting from a Smog Check inspection failure must be conducted by a licensed Smog Check Repair Only or Test and Repair Station.

H&S § 44014

Vehicle Warranty

2.2.3 California Emissions Control Warranty

For California certified vehicles, manufacturers must warrant that the vehicle will pass any Smog Check inspection during the first **3 years or 50,000 miles**. This means that any component failure leading to a Smog Check inspection failures during the first 3 years or 50,000 miles must be repaired under warranty free of charge, unless there is abuse, neglect, or tampering (as defined in the warranty) that affects the failure.

For “high-priced” emission control parts, the emission control warranty extends to **7 years or 70,000 miles**. High priced parts are determined at the time of vehicle certification and listed in the warranty statement included in the owner’s information package provided by the vehicle manufacturer.

For Partial Zero Emission Vehicles (PZEV) the warranty extends to **15 years or 150,000 miles** for all emission related components, and 10 years for hybrid vehicle batteries.

Specific vehicle warranties vary and are determined at the time of vehicle certification. **Always refer to the warranty for each vehicle to determine applicable coverage.** Repairs of Smog Check failures not covered by the emission warranties are the responsibility of the motorist and would be subject to the Smog Check repair cost waiver requirements.

CCR § 2037

2.2.5 Federal Warranties

The federal emissions warranty applies to 1995 and newer light duty vehicles. The warranty covers the cost of repairs that are needed to correct a Smog Check failure for the first **2 years or 24,000 miles**. Some major emissions components (catalytic converters, electronic control unit/computer) are covered for the first **8 years or 80,000 miles**. Heavy-duty vehicle warranty terms may be different. **Note: Always refer to the warranty for each vehicle to determine applicable coverage.**

Vehicle Warranty

2.2.6 Independent Repair Dealer

The consumer can voluntarily choose to have an independent shop complete the repair of a warranted part rather than return the vehicle to the factory-authorized dealer. Vehicle manufacturers almost always require that warranty repairs be performed at factory-authorized dealers, except in case of emergency. **In all circumstances, refer to the warranty for each vehicle to determine applicable coverage.**

If the customer chooses to authorize potential warranty repair, consider the following actions:

- Ask the customer to sign a statement such as: **I have been advised of possible California or federal emissions warranty coverage and agree to have (shop name) complete the repairs.**
- Return the failed part(s) to the customer, who may choose to claim reimbursement from a factory-authorized dealer, if the part is covered by warranty.
- Advise the customer to keep all repair receipts.

Smog Check Reference Guide

SECTION III

Sub-Section	Page
Referee Inspection Services	1
Referee Appointments	2
Referee Label	2

Referee Services**3.1.0 Referee Inspection Services**

In general, the BAR Referee provides services to accommodate unusual Smog Check circumstances not common to ordinary vehicles or stations. Referee inspection services can apply in the following circumstances:

- The motorist feels that his or her vehicle was tested and / or repaired improperly, which resulted in a Smog Check failure;
- The motorist may be eligible for a repair cost waiver (Section 1.8.1);
- A motorist is unable to locate a required emission control part and may qualify for a limited parts exemption.
- The vehicle cannot be inspected by a licensed station due to OEM operating characteristics or design of the vehicle;
- The vehicle's engine has been changed with a non-replacement engine and is not equipped with a BAR Referee Label;
- The vehicle is a kit car (SPCNS) and is not equipped with a BAR Referee Label;
- The vehicle appears **not** to have been originally manufactured to California or USEPA requirements. These vehicles are considered grey market or direct import vehicles and include some Canadian and most Mexican market vehicles;
- Verification of a vehicle converted to operate on electricity only. Additional information regarding electric vehicles is located in Appendix F;
- Verification that an alternative fuel conversion system has been properly installed on a vehicle. Additional information regarding alternative fueled vehicles is located in Appendix F;
- Clearance of a law enforcement citation for excessive exhaust noise;
- Clearance of law enforcement citation for modified emission controls;
- The vehicle is exempt, but received a "Smog Certificate Required" statement on the DMV registration renewal notice. The Referee can provide exempt vehicle verification to resolve situation with DMV.

H&S § 44014, § 44017.4, § 44036, VC § 27150.2

Referee Services

3.1.1 Referee Appointments

To make an appointment, motorists may contact the Referee's scheduling center at 800-622-7733. An inspection cost may apply.

- If the vehicle is going to the Referee for a cost waiver, the customer should have the following documents, as applicable:
 - a. Initial VIR;
 - b. After-repair VIR;
 - c. Copy of the repair order/invoice indicating the cause of the Smog Check failure ;
 - d. Repair receipts and the estimated costs of repairs;
 - e. CAP documents, when applicable;

3.1.2 BAR Referee Label

The BAR Referee Label serves as the emissions control “under-hood” label, providing emission control information for SPCNS, grey market vehicles, vehicles with engine changes, alternative fueled vehicles, and, as needed, other vehicles with unusual configurations. The Referee Label is typically, but not always, affixed to the left front door post. In some cases, the label may be located under the hood.

See the next page for an example of an acceptable Referee Label.

Referee Services

Example of Acceptable BAR Referee Label (All labels must include a serial number)

STATE OF CALIFORNIA
Bureau of Automotive Repair

VEHICLE INFORMATION LABEL

A0000000

1/01/99
DATE
RD0000
SITE

IC000000

VR/MK/MDL: 85 CHEVR SILVERADO
ENG.VR/MK/SIZE: 85 CHRVR 5.0L 8 Cyl
REQ.ECS:
PCV/TAC/AIS/EVP/FR/CAT/EGR/SPK/CCO/MIL/O²

TYPE: T GVWR: 5701
TRANS: M CA/FED: CA
TIMING: 6° BTDC

COMMENTS: CARB covered under EO# 1234 aftermarket part

V.I.N.

AA0AA00A0A0000000

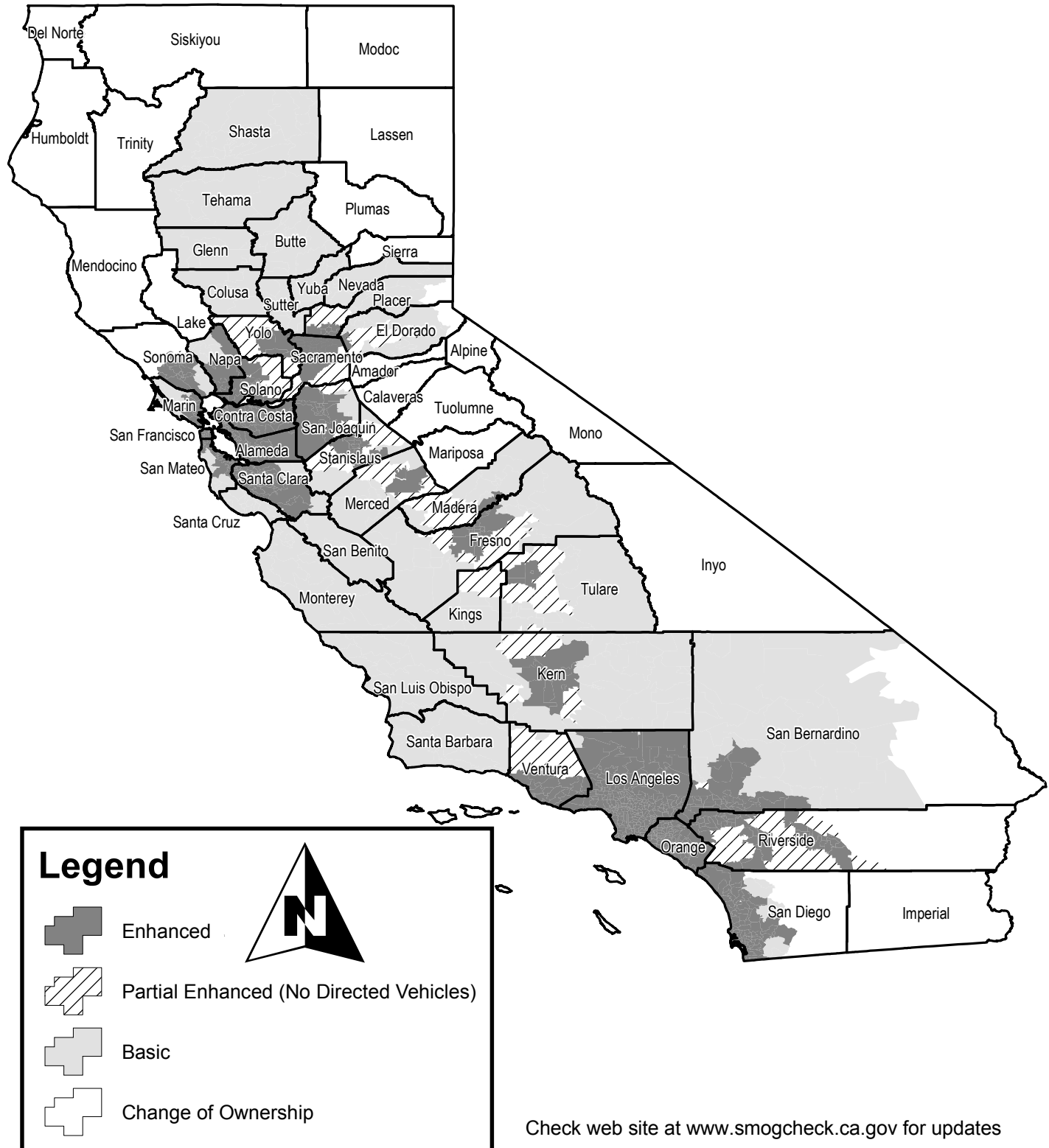
PCV = Positive Crankcase Ventilation
AIS = Air Injection System
FR = Fill Pipe Restrictor
EGR = Exhaust Gas Recirculation
CCO = Computer Controlled
O₂ = Oxygen Sensor

TAC = Thermostatic Air Cleaner
EVP = Fuel Evaporative System
CAT = Catalytic Converter
SPK = Spark Control
MIL = Malfunction Indicator Lamp

Smog Check Reference Guide

APPENDIX A

Areas of California Affected by the Smog Check Program



APPENDIX B

Definitions and Abbreviations List

ARD - Automotive Repair Dealer

ASM - Acceleration Simulation Mode, dynamometer test.

BAR - Bureau of Automotive Repair

Referee – **BAR** Referee is a state contractor that provides special test services for unusual Smog Check circumstances.

CAP - Consumer Assistance Program

CARB - California Air Resources Board

CACC - Clean Air Car Course

CCR - California Code of Regulations

CO - Carbon Monoxide: A colorless, odorless and deadly gas that results from a lack of oxygen when hydrocarbons are burned.

Computer Controlled Vehicle - A vehicle equipped with a computerized emission/engine management system.

DCF - Dilution Correction Factor.

Directed Vehicle - A vehicle restricted to Smog Check inspection and certification at a Test Only station or Gold Shield station.

Dual Fuel Vehicle - A motor vehicle that is equipped to operate on gasoline and another fuel such as liquefied petroleum gas, CNG or liquefied natural gas.

ECS Label - Manufacturer underhood Emission Control System Label.

Emission Control System - For the purposes of a Smog Check inspection, an emission control system is an emission related component, or a

combination of components operating together as a system.

EIS - Emission Inspection System

Engine Change - An engine change is the installation of an engine that is different from the one that was originally installed in the vehicle, and does not qualify as a "replacement engine."

Grey Market Vehicle - Vehicles that were manufactured for sale outside the U.S. and imported into the United States.

Gross Polluter - A vehicle that exceeds the gross polluter exhaust emission standards set forth in CCR § 3342.

GVWR - Gross Vehicle Weight Rating: The vehicle manufacturer's maximum weight rating for a vehicle (vehicle, load, passengers).

HC - Hydrocarbons: Harmful tailpipe emissions made up of unburned fuel. Hydrocarbons are a key element in forming photochemical Smog.

HEP - High Emitter Profile Database used to select most directed vehicles.

LPFET – Refers to the Low Pressure Fuel Evaporative Test and/or the system used to perform the testing.

Motor Home - A motor vehicle designated by DMV as a motor home originally designed or permanently altered, and equipped for human habitation or camping purposes. A motor vehicle to which a camper has been temporarily attached is not a motor home.

N/A - Not Applicable. Emission controls system is not applicable to the vehicle under test.

Smog Check Reference Guide

OBD - On Board Diagnostics - Refers to the self test capability of a vehicle's on board computer systems.

OBD Monitor- Refers to the on board evaluation of particular emission control related systems, devices or components.

OEM - Original Equipment Manufacturer

OIS- OBD Inspection System

O2 - Oxygen: A colorless, odorless gas that makes up about 20 percent of the earth's atmosphere and is necessary for fuel combustion.

Referee Facility - A Referee Facility is a state-contracted vehicle emissions test facility that provides certain Smog Check services for motorists. A Referee Facility is authorized to offer specialized inspection services that are beyond the scope of California's licensed Smog Check stations.

Referee Label - A label used to provide engine and emission control information for unusual vehicles and or emission control configurations. These include, SPCNS, grey market vehicles, vehicles with engine changes. Referee labels are affixed by the BAR Referee.

Repair Only Station- A station licensed by BAR to diagnose, adjust and repair failed vehicles.

Replacement Engine - A replacement engine is defined as follows:

1. A new, rebuilt, remanufactured, or used engine of the same make, number of cylinders, and engine family as the original engine with the original emission controls reinstalled;
or
2. An engine which matches a configuration offered by the manufacturer for that year, make and model of vehicle, and the appropriate emission controls for the

installed engine, and chassis components are present and connected.

Smog Check Inspector- A state license that allows an individual to inspect and certify vehicles subject to Smog Check in all areas of the state.

Smog Check Technician- A state license that allows qualified individuals to diagnose, adjust and repair vehicles subject to Smog Check in all areas of the state.

SPCNS - Specially Constructed Vehicle
Vehicle Code 580 – “A “specially constructed vehicle” is a vehicle which is built for private use, not for resale, and is not constructed by a licensed manufacturer or remanufacturer. A specially constructed vehicle may be built from (1) a kit; (2) new or used, or a combination of new and used, parts; or (3) a vehicle reported for dismantling when reconstructed, does not resemble the original make of the vehicle dismantled. A specially constructed vehicle is not a vehicle which has been repaired or restored to its original design by replacing parts

STAR Station Certification- A voluntary certification program that allows stations meeting the eligibility requirements to test directed vehicles and, as applicable, perform state subsidized repairs- CAP repairs.

Tampered - Any emission control component which is missing, modified or disconnected.

Test and Repair Station - A station licensed by BAR to conduct inspections and, when needed, diagnose, adjust and repair failed vehicles.

Test Only Station - A station licensed by BAR to conduct inspections only. Test Only stations may perform initial inspections of directed vehicles.

USEPA - United States Environmental Protection Agency

VID - Vehicle Information Database

VID Match -The process that successfully links or matches the vehicle information entered into the EIS to the corresponding VID records.

VIR - Vehicle Inspection Report

VIN - Vehicle Identification Number

APPENDIX C

List of Bureau of Automotive Repair Field Offices

Bakersfield
3331 North Sillect, Ave
Bakersfield, CA 93308
(661) 335-7400

Culver City
6001 Bristol Parkway
Culver City, CA 90230
(310) 410-0024

Fleet Operations (Headquarters)
10949 North Mather Boulevard
Rancho Cordova, CA 95670
(916) 403-0313

Fresno
7130 North Marks Avenue
Fresno, CA 93711
(559) 445-5015

Hercules
625 Alfred Nobel Drive, Suite A
Hercules, CA 94547
(510) 964-3030

Irvine
16735 Von Karmen Ave, Suite 100
Irvine, CA 92606
(949) 988-5252

Riverside
1450 Iowa Ave, Suite 150
Riverside, CA 92507
(951) 782-4250

Sacramento
10949 North Mather Boulevard
Rancho Cordova, CA 95670
(916) 403-8080

San Jose
6860 Santa Teresa Boulevard
San Jose, CA 95119
(408) 277-1860

South El Monte
1180 Durfee Ave., Suite 120
South El Monte, CA 91733
(626) 575-6934

South San Francisco
395 Oyster Point Blvd., Suite 102
S. San Francisco, CA 94080
(650) 827-2074

San Diego / Oceanside
16855 W. Bernardo Drive, Suite 112
San Diego, CA 92127
(858) 716-1025

Valencia
27202 Turnberry Lane, Suite 250
Valencia, CA 91355
(661) 702-6600

BLANK PAGE

APPENDIX D

Important Telephone Numbers and Web Sites

California Air Resources Board

(800) 242-4450 www.arb.ca.gov

**California Air Resources Board
aftermarket parts website**

www.arb.ca.gov/msprog/aftermkt/aftermkt.htm

Consumer Assistance Program

(Repair Assistance / Vehicle Retirement)

(866) 272-9642, (916) 403-8780

Department of Consumer Affairs Website

www.dca.ca.gov

Emission Parts Location Center

(800) 622-7733

ET Contractor

(SGS TESTCOM)

(866) 966-7664

Fleet Information

(916) 403-0313

General Information

(Consumer Information Center)

(800) 952-5210

**Legislative Counsel (legislative
information) website**

www.leginfo.ca.gov

Licensing Questions

(BAR Licensing Unit)

(916) 403-8477

Office of Administrative Law website

www.oal.ca.gov

Publication Ordering

(BAR Mail Room)

(916) 403-8472

Referee Scheduling Center

(800) 622-7733

Smog Check Website

www.smogcheck.ca.gov

Industry Help Desk

(866) 860-8509

Inspector/Technician Access Code Changes

Please contact your local field office.

A list of the field offices and their telephone numbers is located in Appendix D.

Please direct technical or informational questions to your local BAR field office.

A list of the field offices and their telephone numbers is located in Appendix D.

BLANK PAGE

APPENDIX E

Engine Change Guidelines

Replacement Engines

A replacement engine is defined as follows:

1. A new, rebuilt, remanufactured, or used engine of the same make, number of cylinders, and engine family as the original engine with the original emission controls reinstalled;
- or
2. An engine which matches a configuration offered by the manufacturer for that year, make and model of vehicle, and the appropriate emission controls for the installed engine, and chassis components are present and connected.

Vehicles with “replacement engines” should be inspected by licensed Smog Check stations and not be sent to the State Referee.

Example: A 1982 Chevrolet Camaro was originally equipped with a 3.8 L engine. It now has a new 5.7 L Chevrolet engine installed.

Action: The emission control systems application manual shows that a 1982 Camaro also came from the factory with a 5.7 L engine. The car has all the required emission control systems installed for a 1982 Camaro with a 5.7 L engine. The car would be tested by the technician as though the 5.7 L engine was factory installed.

All the required emission control equipment for a 1982 Camaro with a 5.7 L engine must be installed and connected.

Engine Changes

Section 3362.1 of Title 16 of the California Code of Regulations states: “An Automotive Repair Dealer shall not make any motor vehicle engine change which degrades the effectiveness of a vehicle’s emission control system. Nor shall said dealer, in the process of rebuilding the original engine or while installing a replacement engine, effect changes that would degrade the effectiveness of the original emission control system and/or components thereof.”

An engine change is defined as follows:

An “engine change” is the installation of an engine that is different from the one which was originally installed in the vehicle and does not qualify as a “replacement engine”.

The following ensures the provisions of CCR 3362.1 are met.

- The installed engine and emission controls (for an exhaust-controlled vehicle) must be the year of the vehicle or newer, and certified to the same or a more stringent new vehicle certification standard.
- Do not mix engine and vehicle classifications that degrade the emissions certification standards. For example, a heavy-duty engine cannot be installed in a light-duty exhaust controlled chassis even if they are the same displacement. Non-emissions controlled power plants such as industrial or “off-road use only” engines may not be installed in any exhaust-controlled vehicle.
- The installed engine and host chassis must retain all of their original emission control equipment. Diesel to gasoline conversions must have all gasoline engine and chassis emission control systems installed

Smog Check Reference Guide

- No internal or external engine modifications (cams, pistons, etc.) may be performed unless the parts/systems are ARB exempted or are EPA certified for use on the installed engine.
- If a computer-controlled engine is installed in a non-computerized vehicle, the MIL “Check Engine” light, OEM diagnostic link, and all sensors, switches, and wiring harnesses needed to make the system fully functional must be installed. The computer control systems must operate correctly.

Example: A 1980 Datsun pickup was originally equipped with a 2.0 liter four-cylinder engine. It now has a V-6 engine installed from a 1993 Chevrolet S-10 pickup

Action: If the vehicle is equipped with a BAR Referee Label, Smog Check stations can inspect the vehicle using the emission control system information listed on the label.

If the vehicle does not have a BAR label, refer the customer to the BAR Referee. The Referee will make a determination of the correct emission control equipment and install a corresponding BAR Referee Label. Thereafter, a licensed Smog Check station can inspect the vehicle in accordance with the equipment listed on the label.

APPENDIX F

Alternative Fuel Powered Vehicles

APPROVED ALTERNATIVE FUEL CONVERSION SYSTEMS

LPG, CNG and LNG introduction

The Air Resources Board requires manufacturers of Liquefied Petroleum Gas (LPG), Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG) conversion systems to obtain approval of these systems before they can be legally sold or installed on California vehicles. Approved systems must be installed in accordance with the manufacturer's installation instructions.

Contact the Air Resources Board at 1-800-242-4450, for additional conversion information and approved systems or check their web site at www.arb.ca.gov/msprog/aftermkt/aftermkt.htm

Additional Alternative Fuel Regulations

Beginning with the 1994 model-year, alternative fuel retrofit manufacturers are required to abide by new regulations. In addition to previous requirements, alternative fuel conversion systems will be required to:

- Be certified uniquely to engine families;
- Demonstrate durability equal to the converted vehicle;
- Be subject to in-use compliance testing;
- Be inspected by a Referee Center prior to possession by the owner (all vehicles retrofitted after 1/1/94).

These regulations ensure that the alternative fuel retrofit systems will maintain their emission levels through out the life of the converted vehicle.

Electric vehicle introduction

The Air Resources Board certifies electric vehicle conversion kits. A conversion kit is designed to convert a vehicle to solely operate on electricity and be classified as a low emission vehicle. Low emission vehicles may be eligible for a state income tax credit.

Methanol/ethanol vehicles

Vehicles should be ARB and/or EPA certified vehicles. Use the underhood label to determine the required emission controls.

These vehicles are subject to Smog Check inspection.

Vehicle classes

For the purposes of this Appendix, vehicle classes are defined as follows:

"Passenger Car" (PC) - any motor vehicle designed primarily for transportation of persons and having a design capacity of 12 persons or less.

"Light-duty Trucks" (LDT) - any motor vehicle rated at 6,000 lbs. GVW or less which is designed primarily for purposes of transportation of property or is a derivative of such vehicle, or is available with special features enabling off-street or off-highway operation and use.

"Medium-duty Vehicles" (MDV) - any pre-1995 heavy-duty vehicle having a manufacturer's GVW rating of 8,500 pounds or less, or any 1995 and later model year heavy-duty vehicle having a GVW of 14,000 pounds or less, or any low emission vehicle having a GVW greater than 6000 lbs but less than 14,000 pounds. Manufacturers may elect to certify pre-1995 vehicles up to 10,000 pounds as medium-duty vehicles.

"Heavy-duty Vehicles" (HDV) - any motor vehicle having a manufacturer's GVWR greater than 6,000 pounds, excluding: light-duty trucks and 1978 and later medium-duty vehicles and 1995 and later vehicles less than 14,000 GVWR. Manufacturers may elect to certify pre-1995 vehicles up to 10,000 pounds as medium-duty vehicles.

**LPG/CNG/LNG
allowed
modifications**

The following modifications are allowed to the vehicle's emission control system when approved LPG, CNG and LNG conversion systems are installed.

1. The heated air intake may be removed.
2. The original air cleaner may be removed and replaced by a new one compatible with the alternative fuel conversion system.
3. The carbon canister may be removed on dedicated LPG, CNG and LNG fueled conversions.

Other modifications may be allowed. To verify any further modifications for specific systems, contact:

California Air Resources Board
1-800-242-4450 or www.arb.ca.gov

**Fuel conversion
abbreviations**

Abbreviations of fuel conversion type are as follows:

DF: Dual Fuel - Designed to operate on either gasoline or an alternative fuel

Electric: Vehicle designed to operate only by electrical power

Hybrid Electric: Designed to operate on electricity and an auxiliary power source

LPG: Liquefied petroleum gas

CNG: compressed natural gas

LNG: liquefied natural gas

VV: variable venturi carburetor

FI: fuel injected

TWC-CL: three-way catalyst with closed loop

H&S § 43006, CCR Title 13

BLANK PAGE

APPENDIX G

Aftermarket Parts Verification Guidelines

This document is intended to provide guidance to Smog Check inspectors conducting Smog Check inspections only. It is not intended for aftermarket parts manufacturers, distributors, or dealers.

California Vehicle Code (VC) Section 27156, in part, prohibits modifications to emission control devices or systems without an exemption from California Air Resources Board (CARB). This means that aftermarket parts that modify or affect the original emission controls must be exempted through a CARB Executive Order (EO). In general, Modified Parts and Add-on Parts require an Executive Order (EO) exemption. Replacement Parts and Consolidated Parts do not require an exemption. For more information, see the definitions on page 4.

As a part of the Smog Check inspection, inspectors must verify Modified or Add-on parts have an EO and are acceptable for installation on the vehicle undergoing inspection. The Aftermarket Parts Verification table on the next page identifies which parts and emission control changes do and do not require verification. For the purpose of a Smog Check inspection, inspectors are only required to verify the EO as listed in this table.

Detailed Smog Check inspection procedures are provided in the Smog Check Manual sections 1.3.0 - 1.3.2.

Refer to the following for EO information:

- Part manufacturer's catalog;
- CARB's Web site <http://www.arb.ca.gov/msprog/aftermkt/aftermkt.htm>;
- Call CARB at (800) 242-4450.

Aftermarket Parts Verification

Emission Control System	Add-on / Modified Part(s) / ECS Changes	Requires Verification of EO During Inspection	
		Gasoline ¹	Diesel
Air Induction	Air Cleaner / Assembly – 1995 model-year and older <u>without</u> Thermostatic Air Cleaner. Changes are acceptable provided all required emission controls are connected and appear functioning.		
	Air Cleaner / Assembly – 1996 model-year and newer and all years equipped with Thermostatic Air Cleaner	√	
	Air Flow Sensor	√	√
	Intake Manifold² – including diesel air horn or elbow.		
	Intercooler - <i>Equipped with the OEM turbocharger / supercharger</i>		√
	Turbocharger/Supercharger - <i>Wastegate, pulleys, etc.</i>	√	√
Computer Management	Variable or Alternate Tuning Devices - “Modules,” “Chips,” “PROMs” “Tuners,” “Pods,” or any device that modifies or conditions ECU inputs or outputs. Including, but not limited to, devices that plug into the ECU, wiring harness, or the OBD connector. (DLC plug-in telemetry or read-only devices are allowed without EO).	√	√
Exhaust	Air Injection Rails - <i>Minor configuration changes allowed</i>		
	EGR system modifications. (<i>Aftermarket replacements do not require EO</i>).	√	√
	Diesel Engine Exhaust Brake		
	After-treatment Control(s) – <i>Catalyst³, Diesel Particulate filters (DPF), sensors(O₂, NO_x pressure, temp.), Diesel Exhaust Fluid (DEF) system, etc.</i>	√	√
	Customized Exhaust on vehicles without after-treatment components, or installed after last required “Cat-Back”- <i>Crossover pipes, Oversized pipes, etc.</i>		
	Customized Exhaust before last required after-treatment component – <i>Header⁵ Heat Risers, Oversized pipes, etc.</i>	√	√
Fuel	Added or Alternative Fuel Kits – <i>Nitrous, propane, methanol, hydrogen, natural gas Biodiesel⁴, etc.</i>	√	√
	Carburetor - <i>Changes not originally offered for the specific vehicle application, i.e. changing: 2 to 4 barrel, 4 to 2 barrel, single to multiple carb, carb to fuel inj. Replacement carbs are okay when identified as such by the manufacturer.</i>	√	√
	Carburetor Related- <i>Choke Heat Stove for Headers, Under carburetor screen</i>		
	Fuel System- <i>Adjustable fuel pressure regulators, Injectors, Injection pump.</i>	√	√
	Fuel System- <i>Diesel Lift Pump, Fuel Filters, Separators, fuel line magnets</i>		
	Fuel Tank(s) - <i>Additional, Oversized</i>	√	
	Water Injection - <i>Vapor / Steam</i>		
Ignition (Gasoline)	Ignition Bridge		
	Ignition System Modification – <i>Performance distributors, control modifications, etc.</i>	√	
Other	Air Conditioner Cut-Out		
	Anti-theft System - <i>Primary ignition changes including engine start / stop controls</i>		
	Camshaft - <i>Performance camshafts, adjustable gears, etc.</i>	√	√
	Engine Modifications - <i>Performance kits, cylinder head swaps, etc.</i>	√	√
	Governor		
	Hybrid Battery Enhancements- <i>Plug-in charger kits, added batteries, etc.</i>		
	Hose(s) - <i>Minor configuration changes are acceptable. Universal replacement hose in place of preformed hose, etc.</i>		
	Oil Separator / Filter - <i>Crankcase gas filter</i>		
	Throttle lockout system		

1) Includes Hybrid Powered Vehicles

2) See Intake Manifolds in this Appendix for more.

3) See Catalytic Converters in this Appendix for more.

4) See Biodiesel in this Appendix for more.

5) Be aware that some vehicles are factory equipped with tubular exhaust manifolds that appear similar to aftermarket headers.

Note: Any add-on or modified part not otherwise addressed in this table must have an EO and be verified during inspection.

Bio Diesel Conversion Kits

For the purposes of a Smog Check inspection, biodiesel kits installed on 1998-2003 model year vehicles are acceptable without an ARB EO exemption. ARB EO exemption is required for 2004 and newer vehicles.

Intake Manifolds

For the purposes of a Smog Check inspection, an aftermarket intake manifold that includes provisions for the OEM emission controls (EGR, TAC, fuel injection, carburetor, thermal switches, heat stove, exhaust cross-over etc.) is acceptable, provided the manufacturer markets the manifold as a replacement for the factory original. The replacement manifold may be made of a different material than the original, for example aluminum instead of cast iron.

Catalytic Converters

Smog Check Inspectors must check that all required catalytic converters (CATs) are present and appear to be properly installed. This includes making sure there are the correct number of CATs, that they are installed in the original location(s), and that they have no tampers or defects. A change in the number of converters is only acceptable when it is allowed for by the EO exemption.

Since January 1, 2009, all aftermarket catalytic converters installed in California must be equipped with an EO number. If an EO number is not present and/or the wrong converter(s) is installed, the vehicle shall fail the catalyst visual inspection.

For OBDII Equipped Vehicles, inspectors shall use the Executive Order (EO) number and corresponding part number to verify the application for each specific vehicle. To verify application, inspectors must check the ARB EO Aftermarket Catalytic Converter Database located on the ARB Web site. Each EO contains a catalog listing the applicable vehicles.

For Pre-OBDII Vehicles, inspectors shall use the EO number to verify the CAT falls within the correct vehicle category- PC-1, PC-2, T-1, T-2. Refer to ARB's Web site for a separate Pre-OBDII EO Listing containing the EO numbers and corresponding vehicle categories. Inspectors are not required to check specific vehicle application using the series or part numbers.

For older CATs without an EO label, use the general procedure described in the first paragraph above.

Catalytic Converters...continued

The ARB EO Aftermarket Catalytic Converter Database, Pre-OBDI EO Listing, and the ARB Installer's Checklist for New Aftermarket Catalytic Converters are located at <http://www.arb.ca.gov/msprog/aftermktcat/aftermktcat.htm>.

The catalyst label format is as follows:

D-XXX-XX
YYYYYY
ZZZZ

D-XXX-XX: This is the ARB EO number.

YYYYYY: The manufacturer part number.

ZZZZ: The date of manufacture. The first two digits indicate the month, and the last two the year.

CARB Definitions of Aftermarket Parts

“Replacement Part” means any aftermarket part intended to replace an Original Equipment Manufacturer (OEM) emissions-related part and which is functionally identical to the original equipment part in all respects which in any way affect emissions (including durability) or a consolidated part. These parts are typically advertised for street use on emission controlled vehicles.

California Code of Regulations (CCR) Title 13 § 1900 (b) (20)

Some examples: Replacement air filter elements, spark plugs, spark plug wires, distributor caps, chromed valve covers, replacement EGR valves, and replacement carburetors. (Note: A replacement EGR valve or carburetor must be specified as replacement, by the part manufacturer, for the vehicle on which it is installed).

“Consolidated Part” means a part which is designed to replace a group of OEM parts and which is functionally identical of those original parts in all respects which in any way affect emissions (including durability).

CCR Title 13 § 1900 (b) (2)

Some examples: A parts manufacturer markets a replacement EGR assembly that consolidates the valve and backpressure transducer that were originally two separate components. (Note: A manufacturer may also consolidate part numbers to make the part application more universal).

“Modified Part” means any aftermarket part intended to replace an original equipment emission-related part and which is not functionally identical to the OEM part in all respects which in any way affect emissions, excluding consolidated parts.

CCR Title 13 § 1900 (b) (14)

Some examples: Performance camshafts, adjustable camshaft gears, performance cylinder heads, performance engine kits, performance engine management components, and performance fuel injection components.

“Add-on Part” means any aftermarket part (which is not a modified part or a replacement part) that may in any way affect emissions.

CCR Title 13 § 1900 (b) (1)

Some examples: Add-on supercharger, turbocharger and nitrous oxide kits.

**Bureau of Automotive Repair
10240 Systems Parkway
Sacramento, CA 95827**